

FIG.1

A

AAAATGGTCCTTCTGTTGATCCTGTCAGTCTTACTTTTGAAAGAAGATGT
CCGTGGGAGTGCACAGTCCAGTGAGAGGAGGGTGGTGGCTCACATGCTGG
GTGACATCATTATTGGAGCTCTCTTTTCTGTTTCATCACCAGCCTACTGTG
GACGAAGTTTCATGAGAGGAAGTGTGGGGCAGTCCGTGAACAGTATGGCAT
TCAGAGAGTGGAGGCCATGCTGCATACCCTGGAAAGGATCAATTGAGACC
CCACACTCTTGCCCAACATCACACTGGGCTGTGAGATAAGGGATTCTGCTG
TGGCATTTCGGCTGTGGCCCTAGAGCAGAGCATTGAGTTCATAAGAGATTCT
CCTCATTTCTTCGGAAGAGGAAGAGGGCTTGGTATGCTCTGTGGATGGCT
CCTCCTCTTCTTCCGCTCCAAGAAGCCCATAGTAGGGGTGATTGGGCCT
GGTTCCAGTTCCTTAGCCATTGAGTCCAGAATTTGCTCCAGCTTTTCAA
CATACCTCAGATTGCTTACTCAGCAACCATCATGGATCTGAGTGACAAGA
CTCTGTTCAAATATTTTCATGAGGGTTGTGCCTTCAGATGCTCAGCAGGCA
AGGTCCATGGTGGACATAGTGAAGAGGTACAACCTGGACCTATGTATCAGC
CGTACACACAGAAGGCAACTATGGAGAAAAGTGGGATGGAAGCCTTCAAAG
ATATGTCAGCGAAGGAAGGGATTTGCATCGCCCACTCTTACAAAATCTAC
AGTAATGCAGGGGAGCAGAGCTTTGATAAGCTGCTGAAGAAGCTCACAAG
TCACTTGCCCAAGGCCCGGGTGGTGGCCTACTTCTGTGAGGGCATGACGG
TGAGAGGTCTGCTGATGGCCATGAGGCGCCTGGGTCTAGTGGGAGAATTT
CTGCTTCTGGGCAGGGAACCAGATGCCATCTTTATTGAGATCTCAAAGAA
CAGCATCCTATGGGAAGACAGAAGAAAATGCCAAGGTCGCTTCCTTCAGG
GTTTTGGAGACATATTACACAGAAGTGAAGTCCGTGCTGCTGCACATGCC
CAGCCTCTGAATCTAGAGCTCAGTTCAGGGCCCATCACTGGACTGAGGGA
CAGGCTCATCTAATTCTGAGTGGATATTACTCTGCATTATAATGAAGCCA
ACAGTCATATCTTCTGATGTGGAGATTTGAGAAGCATTTGTATTGGATGT
GACCGTCAAAATGCGCCCCATATCACTGCAACACCTACAAGTTTTCTTGC
ATGGGGTGCTCAGACTTTCACCTCTGGCAAGTATTACTGGGAGGTCCATG
TGGGGGACTCTTGAATTGGGCTTTCGGTGTGTTGTAATAAGTACTGGAAA
GGGAAGAATCAGAATGGCAATATATATGGAGAGGAGGGACTCTTTAGTCT
TGGGATTGTGAAGAACGACATTGAGTGCAGTCTCTTTACCACCTCCCCAG
TTACACTGCAGTATGTCCCAAGACCTACCAACCATGTAGGATTATTCCTG
GATTGTGAAGCTAGAACTGTGAGCTTCGTTGATGTGAATCAAAGCTCCCC
TATATACACCATCCCTAATTGCTCCTTCTCACCTCCTCTCAGGCCTATCT
TTTGCTGTATTATCTCTGACCAGAGACAAATCAGAAATGTGTTTATCTG
CTGTGGGAACCCCTTTATCCCATAAAGCCCTCTTCCCTGTGCCTTATCAA
ACAGGACAAATAGGTTCTGTTTTATGTCTTGAATTGCATTCTAATGTTAT
TAAACTCATTTATTGTGTTACTATTAAATGTGGTAAAMCACAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

B

MVLLILSVLLLKEDVRGSAQSSERRVVAHMLGDIIGALFSVHHQPTVDEVHERKCGAV
REQYGIQRVEAMLHTLERINSPTLLPNITLGCEIRDSCWHSVALEQSI EFIRDSLIS
EEEEGLVCSVDGSSSSFRSKPIVGVIPGSSSLAIQVQNLLQLFNIPQIAYSATIMDL
DKTLFKYFMRVVPDAQQARSMVDIVKRYNWTYVSAVHTEGNYGESGMEAFKDMSAKEGI
CIAHSYKIYSNAGEQSFDKLLKKLTSHLPKARVVAYFCEGMTVRGLLMAMRRLGLVGEFL
LLGREPDAIFIEISKNSILWEDRRKCQGRFLQGFGDILHRSESVLLHMPQPLNLELSSGP
ITGLRDRLI

1. The first group of words is "The first group of words is".
 2. The second group of words is "The second group of words is".
 3. The third group of words is "The third group of words is".
 4. The fourth group of words is "The fourth group of words is".
 5. The fifth group of words is "The fifth group of words is".
 6. The sixth group of words is "The sixth group of words is".
 7. The seventh group of words is "The seventh group of words is".
 8. The eighth group of words is "The eighth group of words is".
 9. The ninth group of words is "The ninth group of words is".
 10. The tenth group of words is "The tenth group of words is".
 11. The eleventh group of words is "The eleventh group of words is".
 12. The twelfth group of words is "The twelfth group of words is".
 13. The thirteenth group of words is "The thirteenth group of words is".
 14. The fourteenth group of words is "The fourteenth group of words is".
 15. The fifteenth group of words is "The fifteenth group of words is".
 16. The sixteenth group of words is "The sixteenth group of words is".
 17. The seventeenth group of words is "The seventeenth group of words is".
 18. The eighteenth group of words is "The eighteenth group of words is".
 19. The nineteenth group of words is "The nineteenth group of words is".
 20. The twentieth group of words is "The twentieth group of words is".
 21. The twenty-first group of words is "The twenty-first group of words is".
 22. The twenty-second group of words is "The twenty-second group of words is".
 23. The twenty-third group of words is "The twenty-third group of words is".
 24. The twenty-fourth group of words is "The twenty-fourth group of words is".
 25. The twenty-fifth group of words is "The twenty-fifth group of words is".
 26. The twenty-sixth group of words is "The twenty-sixth group of words is".
 27. The twenty-seventh group of words is "The twenty-seventh group of words is".
 28. The twenty-eighth group of words is "The twenty-eighth group of words is".
 29. The twenty-ninth group of words is "The twenty-ninth group of words is".
 30. The thirtieth group of words is "The thirtieth group of words is".
 31. The thirty-first group of words is "The thirty-first group of words is".
 32. The thirty-second group of words is "The thirty-second group of words is".
 33. The thirty-third group of words is "The thirty-third group of words is".
 34. The thirty-fourth group of words is "The thirty-fourth group of words is".
 35. The thirty-fifth group of words is "The thirty-fifth group of words is".
 36. The thirty-sixth group of words is "The thirty-sixth group of words is".
 37. The thirty-seventh group of words is "The thirty-seventh group of words is".
 38. The thirty-eighth group of words is "The thirty-eighth group of words is".
 39. The thirty-ninth group of words is "The thirty-ninth group of words is".
 40. The fortieth group of words is "The fortieth group of words is".
 41. The forty-first group of words is "The forty-first group of words is".
 42. The forty-second group of words is "The forty-second group of words is".
 43. The forty-third group of words is "The forty-third group of words is".
 44. The forty-fourth group of words is "The forty-fourth group of words is".
 45. The forty-fifth group of words is "The forty-fifth group of words is".
 46. The forty-sixth group of words is "The forty-sixth group of words is".
 47. The forty-seventh group of words is "The forty-seventh group of words is".
 48. The forty-eighth group of words is "The forty-eighth group of words is".
 49. The forty-ninth group of words is "The forty-ninth group of words is".
 50. The fiftieth group of words is "The fiftieth group of words is".
 51. The fifty-first group of words is "The fifty-first group of words is".
 52. The fifty-second group of words is "The fifty-second group of words is".
 53. The fifty-third group of words is "The fifty-third group of words is".
 54. The fifty-fourth group of words is "The fifty-fourth group of words is".
 55. The fifty-fifth group of words is "The fifty-fifth group of words is".
 56. The fifty-sixth group of words is "The fifty-sixth group of words is".
 57. The fifty-seventh group of words is "The fifty-seventh group of words is".
 58. The fifty-eighth group of words is "The fifty-eighth group of words is".
 59. The fifty-ninth group of words is "The fifty-ninth group of words is".
 60. The sixtieth group of words is "The sixtieth group of words is".
 61. The sixty-first group of words is "The sixty-first group of words is".
 62. The sixty-second group of words is "The sixty-second group of words is".
 63. The sixty-third group of words is "The sixty-third group of words is".
 64. The sixty-fourth group of words is "The sixty-fourth group of words is".
 65. The sixty-fifth group of words is "The sixty-fifth group of words is".
 66. The sixty-sixth group of words is "The sixty-sixth group of words is".
 67. The sixty-seventh group of words is "The sixty-seventh group of words is".
 68. The sixty-eighth group of words is "The sixty-eighth group of words is".
 69. The sixty-ninth group of words is "The sixty-ninth group of words is".
 70. The seventieth group of words is "The seventieth group of words is".
 71. The seventy-first group of words is "The seventy-first group of words is".
 72. The seventy-second group of words is "The seventy-second group of words is".
 73. The seventy-third group of words is "The seventy-third group of words is".
 74. The seventy-fourth group of words is "The seventy-fourth group of words is".
 75. The seventy-fifth group of words is "The seventy-fifth group of words is".
 76. The seventy-sixth group of words is "The seventy-sixth group of words is".
 77. The seventy-seventh group of words is "The seventy-seventh group of words is".
 78. The seventy-eighth group of words is "The seventy-eighth group of words is".
 79. The seventy-ninth group of words is "The seventy-ninth group of words is".
 80. The eightieth group of words is "The eightieth group of words is".
 81. The eighty-first group of words is "The eighty-first group of words is".
 82. The eighty-second group of words is "The eighty-second group of words is".
 83. The eighty-third group of words is "The eighty-third group of words is".
 84. The eighty-fourth group of words is "The eighty-fourth group of words is".
 85. The eighty-fifth group of words is "The eighty-fifth group of words is".
 86. The eighty-sixth group of words is "The eighty-sixth group of words is".
 87. The eighty-seventh group of words is "The eighty-seventh group of words is".
 88. The eighty-eighth group of words is "The eighty-eighth group of words is".
 89. The eighty-ninth group of words is "The eighty-ninth group of words is".
 90. The ninetieth group of words is "The ninetieth group of words is".
 91. The ninety-first group of words is "The ninety-first group of words is".
 92. The ninety-second group of words is "The ninety-second group of words is".
 93. The ninety-third group of words is "The ninety-third group of words is".
 94. The ninety-fourth group of words is "The ninety-fourth group of words is".
 95. The ninety-fifth group of words is "The ninety-fifth group of words is".
 96. The ninety-sixth group of words is "The ninety-sixth group of words is".
 97. The ninety-seventh group of words is "The ninety-seventh group of words is".
 98. The ninety-eighth group of words is "The ninety-eighth group of words is".
 99. The ninety-ninth group of words is "The ninety-ninth group of words is".
 100. The hundredth group of words is "The hundredth group of words is".

	1		* 60
rat1-369	MVLLLLILSVLLLLKEDVRGSAQSSERRVVAHMPGDIIIGALFSVHHQPTVDKVHERKCGAV		
mGluR5M	MVLLLLILSVLLLLKEDVRGSAQSSERRVVAHMLGDIIIGALFSVHHQPTVDEVHERKCGAV		
human1-370	MVLLLLILSVLLLLKEDVRGSAQSSERRVVAHMPGDIIIGALFSVHHQPTVDKVHERKCGAV		
	61		120
rat1-369	REQYGIQRVEAMLHTLERINSDPTLLPNITLGCEIRDSCWHSVAVALEQSIEFIRDSLIISS		
mGluR5M	REQYGIQRVEAMLHTLERINSDPTLLPNITLGCEIRDSCWHSVAVALEQSIEFIRDSLIISS		
human1-370	REQYGIQRVEAMLHTLERINSDPTLLPNITLGCEIRDSCWHSVAVALEQSIEFIRDSLIISS		
	121		* 180
rat1-369	EEEEGLVRCVDGSSS-FRSKKPIVGVIQPGSSSVAIQVQNLLQLFNIPQIAYSATSMDL		
mGluR5M	EEEEGLVCSVDGSSSSFRSKKPIVGVIQPGSSSLAIQVQNLLQLFNIPQIAYSATIMDL		
human1-370	EEEEGLVRCVDGSSSSFRSKKPIVGVIQPGSSSVAIQVQNLLQLFNIPQIAYSATSMDL		
	181		240
rat1-369	DKTLFKYFMRVVPDAQQARAMVDIVKRYNWTYVSAVHTEGNYGESGMEAFKDMSAKEGI		
mGluR5M	DKTLFKYFMRVVPDAQQARSMVDIVKRYNWTYVSAVHTEGNYGESGMEAFKDMSAKEGI		
human1-370	DKTLFKYFMRVVPDAQQARAMVDIVKRYNWTYVSAVHTEGNYGESGMEAFKDMSAKEGI		
	241		300
	*		
rat1-369	CIAHSYKIYSNAGEQSFDKLLKKLRSHLPKARVVACFCEGMTVRGLLMAMRRLGLAGEFL		
mGluR5M	CIAHSYKIYSNAGEQSFDKLLKKLTSHLPKARVVAYFCEGMTVRGLLMAMRRLGLVGEFL		
human1-370	CIAHSYKIYSNAGEQSFDKLLKKLTSHLPKARVVACFCEGMTVRGLLMAMRRLGLAGEFL		
	301		360
rat1-369	LLGSDG-----WADRYDVTGDYQREAVGGITIKLQSPDVKWFDDYYLKLR--		
mGluR5M	LLGREPDAIFIEISKNSILWEDRRKCQGRFL-QGFGDILHRSESVLLHMPQPLNLELSSG		
human1-370	LLGSDG-----WADRYDVTGDYQREAVGGITIKLQSPDVKWFDDYYLKLR--		
	361		385
rat1-369	PETNLRNPWFQEFWQHRFQCRLEGF		
mGluR5M	PITGLRD-----RL--I		
human1-370	PETNHRNPWFQEFWQHRFQCRLEGF		